

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A device for treating mucositis in a patient, the device comprising:

a housing adapted to be positioned adjacent to the patient;

a plurality of optoelectronic devices positioned within the housing, the optoelectronic devices emitting radiation having ~~at least a threshold light intensity approximately equal to an energy density of at least approximately 4 Joules per centimeter squared the emitted radiation divided by a radiation time period~~, the optoelectronic devices emitting radiation at a wavelength suitable for the treatment of mucositis while emitting a minimal amount of heat; and

a cooling system that cools the optoelectronic devices.

2. (Original) The device of claim 1, wherein the plurality of optoelectronic devices include a plurality of light-emitting diodes.

3. (Original) The device of claim 1, wherein the plurality of optoelectronic devices are positioned within the housing in an array, and wherein the array includes optoelectronic devices emitting radiation at a wavelength of at least one of approximately 670 nanometers, 680 nanometers, 730 nanometers, 780 nanometers, 830 nanometers, and 880 nanometers.

4. (Original) The device of claim 1, wherein the plurality of optoelectronic devices emit radiation at a wavelength of approximately 688 nanometers.

Claim 5 (Cancelled).

6. (Previously Amended) The device of claim 1, wherein the threshold light intensity is approximately 60 milli-Watts per centimeter squared.

Claim 7 (Cancelled).

8. (Original) The device of claim 1, wherein a translucent cover plate is disposed between the housing and the plurality of optoelectronic devices to electrically isolate the patient from the plurality of optoelectronic devices.

9. (Original) The device of claim 1, wherein the cooling system includes a plurality of air vents in the housing and an internal heat sink positioned within the housing.

Claims 10-14 (Cancelled).

15. (Original) The device of claim 1, wherein the device is a mobile lamp.

Claims 16-96 (Cancelled).

97. (New) The device of claim 1, wherein the optoelectronic devices emit radiation for a radiation time period of approximately 70 seconds.

98. (New) A device for treating mucositis in a patient, the device comprising:

- a housing adapted to be positioned adjacent to the patient;
- a plurality of optoelectronic devices positioned within the housing, the optoelectronic devices emitting radiation at a wavelength suitable for the treatment of mucositis while emitting a minimal amount of heat;
- a cover plate positioned over the plurality of optoelectronic devices in order to electrically isolate the patient from the plurality of optoelectronic devices; and
- a controller positioned within the housing and coupled to the plurality of optoelectronic devices, the controller adapted to provide power to the plurality of optoelectronic devices for a radiation time period suitable for the treatment of mucositis.

99. (New) The device of claim 98, wherein the controller includes a timer.

100. (New) The device of claim 98, wherein the controller provides power to the plurality of optoelectronic devices for a radiation time period of approximately 70 seconds.